Work Order ID 81525 Page 1 March-15-12 8:44:31 AM *N900040100* Item ID: D407-667-105TRN Accept Setup Start **Revision ID:** Crosstube Turning Detail **Item Name:** Start Qty: 1.00 **Start Date:** 15/03/2012 **Cust Item ID:** Req'd Qty: 1.00 **Required Date: 29/03/2012 Customer:** Reference: Run Process Plan: MCJ Date: \7\03\\5 Tooling: Approvals: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Accept Reject Reject Insp. Set Up/ Qty **Work Center ID** Description Code Qty Number Stamp **Run Hours Draw Nbr** Revision Nbr D407-667-145 Rev C 100 0.00 MORI SEIKI CNC LATHE LARGE *100* 0.00 Mori Seiki Memo Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8673 on both ends as per Folio FA249 2-Turn first side as per Folio FA249 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV: *Use mill bastard file, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. 110 QC1- Inspect dimensions to dimension sheet 0.00 *110* 0.00 Memo Quality Control

12/04/12

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Item ID: Revision ID:	D407-667-1	05TRN		Accept	*N900	0040	1100	ገ*	Setup	Start	*N.	S1*
Item Name:	Crosstube Tu	rning Detail								Stop	*N:	S2*
Start Date:	15/03/2012	Start Qty: 1.00	*1*		Cust Item							
Required Date Reference:	: 29/03/2012	Req'd Qty: 1.00	*1*		Customer:							
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120 Mori Seiki Mori Seiki CNC La	athe Large	Memo	nd side as per Folio FA	0.00 249				(- -{	<u> </u>		ana
		*Use mill b: *Do not use FOLIO REV DWG REV:	astard file, brush file re sandpaper coarser than						•			12/64
		•	t # and batch # using v uff(Do not engrave on o	ibrating stylus as per Dwg Di outside of tube)	206-667-145							
130		QC1- Inspect dimensions	s to dimension sheet	0.00								
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Page 3

March-15-12 8:44:31 AM *N900040100* Item ID: D407-667-105TRN Accept Setup Start **Revision ID:** Crosstube Turning Detail Item Name: 15/03/2012 Start Qty: 1.00 **Start Date: Cust Item ID:** Req'd Qty: 1.00 **Required Date:** 29/03/2012 **Customer:** Reference: Run Process Plan: Date: _____ **Approvals:** Tooling: Date: SPC (Y/N): Date: Date: Sequence ID/ Reject Set Up/ Tool ID Tool # Plan Reject Operation Accept Insp. **Work Center ID** Description Qty Qty Number Stamp **Run Hours** Code QC8- Inspect parts - second check 0.00 140 *140* 0.00 Memo Quality Control 0.00 145 *145* 0.00 Crosstubes Memo GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY. Crosstubes 150 Crosstubes Chemical Conversion 0.00 *150* HandFXtube 0.00 Memo Hand Finishing Crosstubes

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March-15-12 8	8:44:31 AM								
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Start Date: Required Date Reference:	15/03/2012 e: 29/03/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:				
Approvals:		n:	Date:		Date:		Run	Start Stop	*NR1* *NR2*
Sequence ID/ Work Center I		Operation Description	2	Set Up/ Run Hours	Tool ID Tool # Pla		pt Rej Qty		Reject Insp. Number Stamp
*160 *160* QC Quality Control		QC7-Inspect Chemical (Conversion Coat	0.00	ì	ĺ	P	12	-4-23
70 *170* Packaging Packaging		Packaging Memo Identify and	stock in Kanban rackLo	0.00 0.00 cation: <u>L.b.</u>			MO.	<u>(</u>	Z-4-23
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Picklist Print

March-15-12 8:44:35 AM

Work Order ID: 81525

81525

Parent Item:

D407-667-105TRN

D407-667-105TRN

Parent Item Name: Crosstube Turning Detail

Start Date: 15/03/2012

Required Date: 29/03/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:a08.02.28 new issueEC

IPP Rev B 08.04.02 Removed polish EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6010-115		Manufactured	No			110	Each	17.0000	1	1			
*D6010 11	1 / *								**				

1)6010-115

Crosstube Material

Location Loc Qty Loc Code LG 17 38343 17

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DART AEROSPACE LTD	Work Order:	81525
Description: Crosstube Assembly	Part Number:	D407-667-145
Inspection Dwg: D407-667-145 Rev: C		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	2.240	+0.005/-0.000	2.244	1		vern	CWC-08
	1.865	+0.005/-0.000	1.870			1	
	1.878	+0.005/-0.000	1.883				
	1.970	+0.005/-0.000	1.971				
	2.030	+0.005/-0.000	2.030				
_	2.165	+0.005/-0.000	2.170			1	
SIDE A	*						
	0.125	+/-0.010	.126			vern	CWC-08
	R0.063	+/-0.010	.063			R6	CWC CO
	R0.500	+/-0.010	.500			1,	
	R0.063	+/-0.010	.063			<u>. 1</u>	
	4.438	+/-0.030	4.440			Vern	CUC-08
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	2.240	+0.005/-0.000	2.244			VESA	CWC-08
	1.865	+0.005/-0.000	1.870	/		1	
	1.878	+0.005/-0.000	1.882	/			
	1.970	+0.005/-0.000	1.970	/			
	2.030	+0.005/-0.000	2.630	//			
	2.165	+0.005/-0.000	2.170			4	
DE B							
SIDI	0.125	+/-0.010	.125	/		vern	CWC-08
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	R0.500	+/-0.010	300			()	
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	4.438	+/-0.030	4.440			vern	cucos
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Measured by: KC MM1

Date: 12/4/10

Audited by: Preliminary Approval:

Date: Date:

Rev	Date	Change	Revised by	Approved
Α	04.04.21	New Issue (P/O D407-667-105)	KJ/RF	
В	06.03.09	Dwg Rev updated	KJ/JLM	
С	09.06.11	Dwg Rev updated	K.I	7/
D	11.06.21	Tolerance revised for 4.438 dimension	KJ 🕢	Chill

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Side	LOCATION on tube	R1 . 15 7	R2 ,200	R3	R4
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В	152	.191	
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1209 B1525 KC 12-4-20 Part number Batch number Measured By

Item	Qty -145	Part Number	Description
1	X	D407-667-145	CROSSTUBE ASSEMBLY (407 HIGH FWD)
2	1	D6010-115	CROSSTUBE
3	2	D2873-043	NUT PLATE
4	2	D2873-045	NUT PLATE
5	2	D2891-1	SUPPORT
6	4	D3595-063-395	RUBBER CUSHION
7	4	MS21920-20	CLAMP (OR MS21920-21)
8	14	MS20601AD4W10	RIVET (OR NAS9302B-4-10)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299- 947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

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- 1) MATERIAL: MANUFACTURED FROM D60 10-115 FINISHED LENGTH = 113,20±0,020
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D407-667-145" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 17.8 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART WHERE INDICATED. BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH.
- 10) BEIND PROGRESSIVELY WITH A MINIMUM OF 6 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2891-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING:
- 13) INSTALL MS21920-20 CLAMPS (OR -21) WITH D3595-063-395 RUBBER CUSHIONS TO SECURE THE D2891-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMP MECHANISMS ARE LOCATED ON CROSSTUBE SUPPORTS.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS., DEFECTS UP TO 0,005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

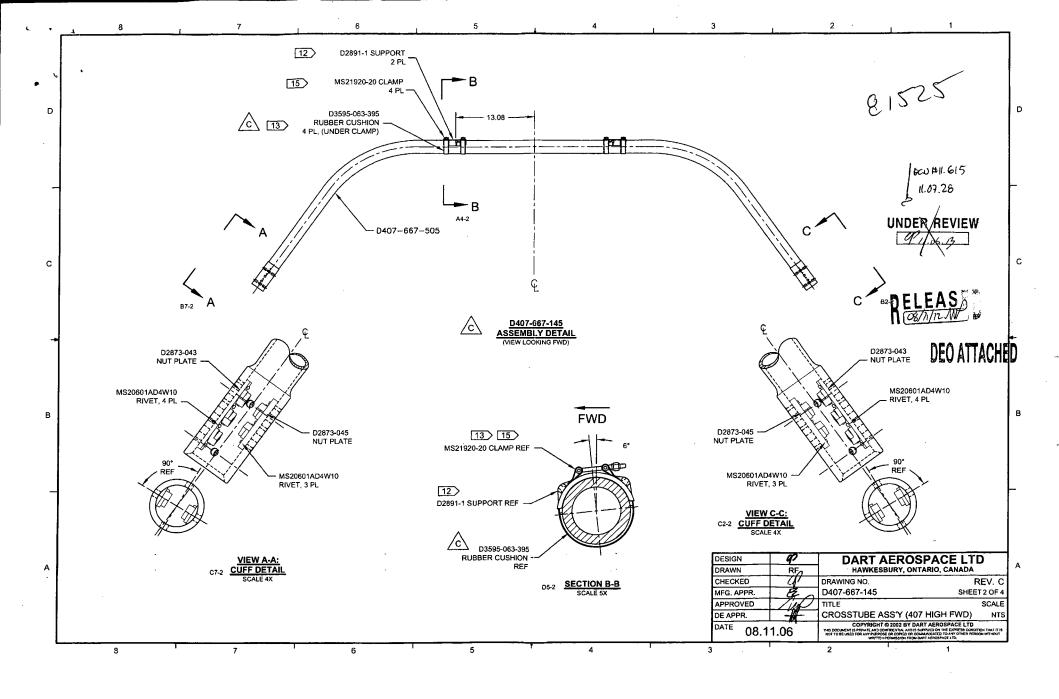
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12/03/15

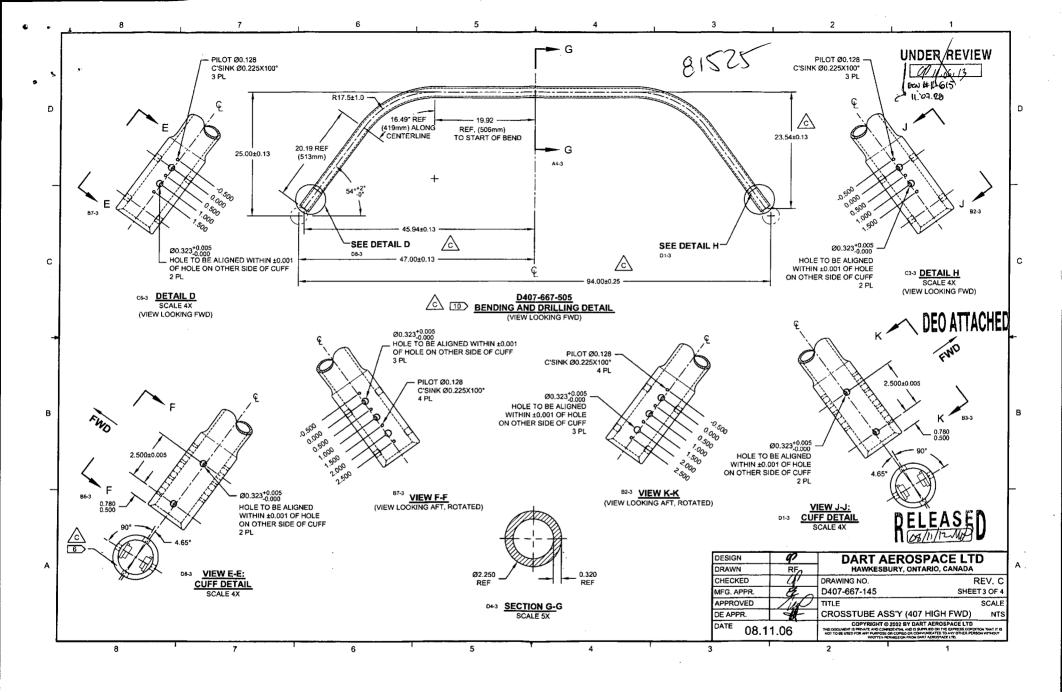
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В		DLES AND NUT HT/AA SKUDTI	PLATES FOR COMPATABILITY UBES	PH	05.07.26			
Α	NEW IS	SSUE		CP	02.05.08			
REV.			DESCRIPTION	BY	DATE			
DESIGN		P	DART AEROSP	ACE	LTD			
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CHECKE	≘D	A)	DRAWING NO.		REV. C			
MFG. APPR.			D407-667-145 SHEET 1 OF 4					
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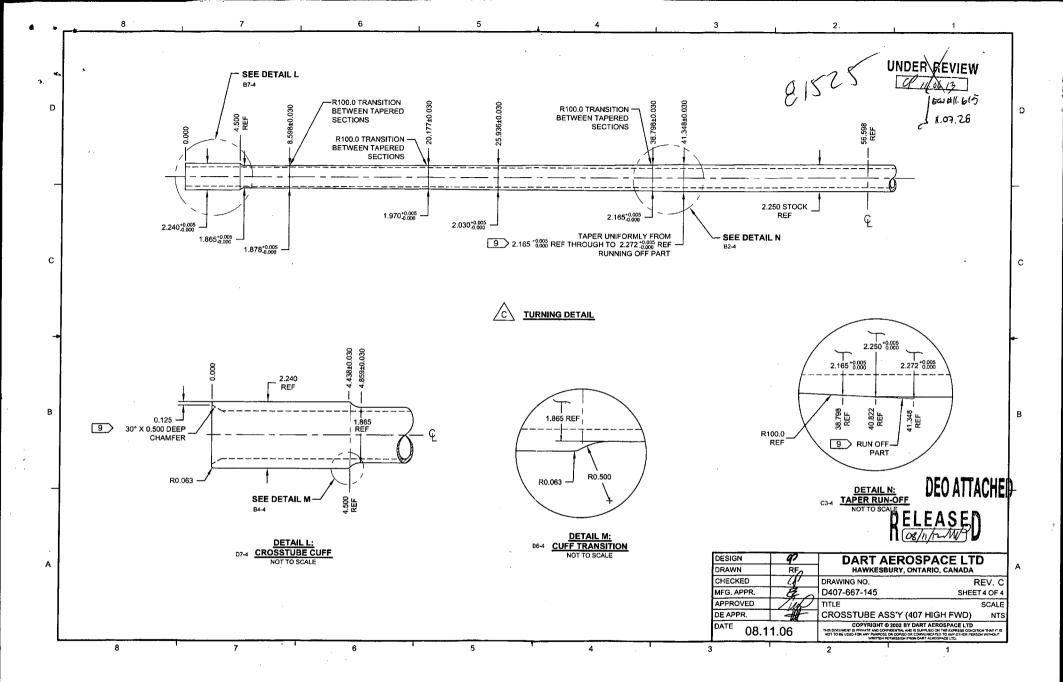


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DRAWING NO.	TITLE REV	C DART AEROSPACE LT	D.E.O. NO.	SHEET NO.	SCALE
D407-667-145	CROSSTUBE ASS'Y (407 HIGH FW) ENGINEERING ORDER	D407-667-145-C-1	SHEET 1 OF 1	NTS
DRAWN 97	CHECKED / S	MFG. APPR.	APPROVED	DE APPR.	
DATE 11.07.	15 DATE 11,07.22	DATE 11:07:22	DATE 1/07/22	DATE 11.07.2	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

Item	Qty -145	Part Number	Description
9	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

is

- 12) TO INSTALL D2891-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2891-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.





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		Disposition:				Date:		
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DATE	STEP	Description of NC Section A	Corrective Action Section			Verification	Approval	Approval
			Initial Chief Eng	Action Description Chief Eng	Sign & Date		Chief Eng	QC Inspector
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